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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,462	08/12/2005	Henrik Holter	43327-212567	4516
<sup>26694</sup> VENABLE LL	7590 12/29/200	6	EXAM	INER
P.O. BOX 34385			WIMER, MICHAEL C	
WASHINGTO	N, DC 20043-9998		ART UNIT PAPER NUMBER	
			2821	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	12/29/2006	PAI	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/520,462	HOLTER, HENRIK	
Office Action Summary	Examiner	Art Unit	
	Michael C. Wimer	2821	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed  n the mailing date of this come ED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>05 C</u> 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final.  nce except for formal matters, pr		nerits is
Disposition of Claims			
4) ☐ Claim(s) 22-45 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 22-34 is/are allowed. 6) ☐ Claim(s) 35-45 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examine 10) ☐ The specification is objected to by the Examine Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or dec	wn from consideration.  or election requirement.  er.  : a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. Settion is required if the drawing(s) is objected.	ee 37 CFR 1.85(a). Djected to. See 37 CFR	1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	es have been received.  es have been received in Applicate  rity documents have been receiv  u (PCT Rule 17.2(a)).	tion No red in this National St	age
Attachment(s)  Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate	

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## **DETAILED ACTION**

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## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 35,36,38,40,42 and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Svy (4786911).
  - Regarding Claims 35,38,40,42 and 45, Svy shows in Figure 2, an antenna radiating element suitable for incorporation in an electrically controlled broadband group antenna, the element 24,28, defining a plurality, comprises a rotationally-symmetrical body 32,36 tapering towards one end and covered with a metallic casing surface 30,34, all arranged as claimed. Regarding Claim 36, the paragraph bridging columns 7 and 8 points out a bond or attachment for the body.
- 3. Claims 35,38,40 and 45 are rejected under 35 U.S.C. 102(e) as being anticipated by Honda et al (6593892).

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Regarding Claims 35,38,40 and 45, Honda et al teach the use of a plated conductive surface over dielectric (col. 3, lines 5-14) in defining the antenna as a rotationally-symmetrical body, conically-shaped and tapering, made of homogenous, aluminum material.

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## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 36,37,41 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Svy (4786911), or Honda et al (6593892), in view of Jarvis (2532551).

Svy is cited as showing the basic antenna as set forth above, but does not appear to teach means for removably attaching the body, comprising a screw connection at the second end thereof. Thus, Jarvis is cited as evidence of obviousness and as resolving the level of ordinary skill in the antenna art and shows screws at the outer, second ends of the body 12,13,14,15,23. It would have been obvious to the skilled artisan to employ such fastening means, along with the circular spacing sleeve 22, in either the Svy antenna or the Honda et al. antenna in order to provide additional support and environmental protection.

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6. Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svy (4786911), or Honda et al (6593892), in view of Jarvis (2532551) as applied to claim 35 above, and further in view of Hart (6486846).

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The use of a circular paraboloid as the body is an obvious shape for a bicone antenna such as shown in the primary reference devices. A skilled artisan would have found it obvious to employ the paraboloid 430 in Fig. 4 of Hart as the body when a particular beam direction is desired.

7. Claim 44 is rejected under 35 U.S.C. 103(a) as being unpatentable over Svy (4786911), or Honda et al (6593892), in view of Jarvis (2532551) as applied to claims 35 and 43 above, and further in view of Josypenko (6268834).

Regarding Claim 44, Josypenko shows inductive shorts or a cable bush 22-25 connecting the outer, second ends of the body for routing a cable along the outer rim. It would have been obvious to employ a cable bush 22-25 with a bore opening along the axis, and a radially-extending opening (a half-moon configuration or channel for the cable) along with the dielectric spacing sleeve of Jarvis in the primary reference devices.

## Allowable Subject Matter

- 8. Claims 22-34 are allowed.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (571) 272-1833. The examiner can normally be reached on M-F.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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MCW 12/13/2006